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Semi-annual Status Report
for
GLOBAL AURORAL IMAGING - DYNAMICS EXPLORER MISSION

1 July - 31 December 1994

NASA Grant NAG5-483

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3 p

1. PROGRESS DURING REPORTING PERIOD

A/B/C. Instrument Health/Operations/Data Transmissions to Iowa

No spacecraft operations or GSFC decommutation took place in the reporting interval.

D. Image Processing at Iowa

100% of image processing has been completed for all imaging data at Iowa which is processible.

E. Data Archives

Archival work in progress:

Copying of all DE1 telemetry data for 81266 through 91049 from platter to 4mm DAT is approximately 80% completed. Further copying may not be possible because of problems with the platter closings at GSFC.

Iowa archiving of nonproduction-sized DESAI images is 70% completed.

Preliminary study work was done in regard to creating a set of images of survey data plots in a standard graphics format to be archived on a modern-supported archival media.

2. PUBLICATIONS

Craven, J. D., A. C. Nicholas, L. A. Frank, D. J. Strickland and T. J. Immel, Variations in the FUV Dayglow After Intense Auroral Activity, Geophys. Res. Lett., 21, 2793-2796, 1994.

Meier, R. R., R. Cox, D. J. Strickland, J. D. Craven and L. A. Frank, Interpretation of Dynamics Explorer Far UV Images of the Quiet Time Thermosphere, accepted for publication, J. Geophys. Res., October 1994.

Weimer, D. R., J. D. Craven, L. A. Frank, W. B. Hanson, N. C. Maynard, R. A. Hoffman and J. D. Slavin, Satellite Measurements Through the Center of a Substorm Surge, J. Geophys. Res., 99, 23,639-23,649, 1994.

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3. PRESENTATIONS

Presentation at the 1994 Fall Meeting of the American Geophysical Union, San Francisco, CA, December 1994.

Pulkkinen, T. I., D. N. Baker, P. K. Toivanen, J. S. Murphree and L. A. Frank, Mapping of the Auroras During the CDAW-9 Event C Substorm, EOS, 75(44), 566, 1994.